

AMENDMENTS TO THE CLAIMS

Original claims 1-9 were amended under Article 19. This listing of claims will replace all prior versions, and listings, of the claims amended under Article 19 in the application:

Listing of Claims

Claim 1 (Currently Amended): A cored wire injection process for introducing fluxes and alloying additives in liquid steel bath after adjusting bath temperature and the chemistry of liquid steel in a secondary treatment unit ~~according to requirements;~~, said injection process comprising the steps of:

~~characterized in that~~

~~releasing~~ said additives ~~are released~~ close to the bottom of ~~the~~a ladle by injecting at a predetermined speed a prefabricated cored wire ~~of appropriate dimensions~~, depending on the grade of liquid steel, treatment temperature, ~~and~~ ladle size, and liquid column height.

Claim 2 (Currently Amended): The process as claimed in claim 1, wherein said predetermined speed of injection is preferably~~about~~ 110 m/min.

Claim 3 (Currently Amended): The process as claimed in claim 1, wherein the dimensions of said cored wire are ~~preferably~~ more than 13 mm in diameter and more than 0.4 mm in sheath thickness to suit steel grades of high liquidus temperature and/or treatment temperature in a 140 ton ladle with 3 m liquid column height.

Claim 4 (Previously Presented): The process as claimed in claim 3, wherein the dimensions of said cored wire are 16 mm in diameter and 0.6 mm in sheath thickness and the speed of injection is 60-80 m/min.

Claim 5 (Previously Presented): The process as claimed in claim 3, wherein the dimensions of said cored wire are 18 mm in diameter and 0.8 mm in sheath thickness and the speed of injection is 100-120 m/min.

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Claim 6 (Previously Presented): The process as claimed in claim 1, wherein said additive is a ferro-alloy material.

Claim 7 (Previously Presented): The process as claimed in claim 1, wherein said additive is a calcium bearing material.

Claim 8 (Previously Presented): The process as claimed in claim 7, wherein said calcium bearing material comprises calcium-silicide.

Claim 9 (Previously Presented): The process as claimed in claim 7, wherein said calcium bearing material comprises calcium iron.